

DEVICE FOR DECODING DISC READ SIGNAL AND METHOD THEREOF

Abstract

A device for decoding a disc read signal generated by accessing data stored in a disc storage medium. The device includes: a multi-level analog-to-digital converter (ADC) for digitizing the disc read signal to generate a digitized disc read signal; a confidence index generating circuit for generating a plurality of confidence indexes according to the magnitude of the digitalized disc read signal; a demodulator coupled to the multi-level ADC for demodulating the digitalized disc read signal to generate a demodulated disc read signal; and an Error Correction Code (ECC) decoder coupled to the demodulator for decoding the demodulated disc read signal according to the confidence indexes.